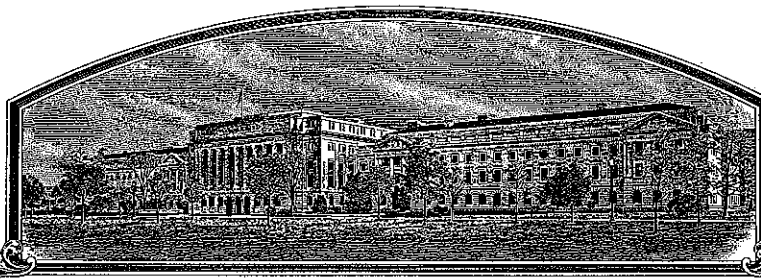


No.

200500285



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Louisiana State University Agricultural Center

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

RICE

'Jupiter'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this seventeenth day of April, in the year two thousand and six.

Attest:

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

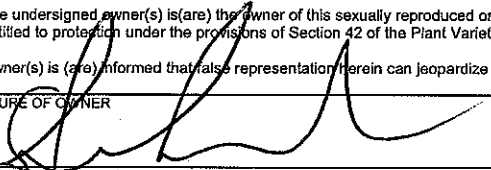
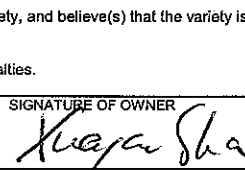
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER <b>Louisiana State University Agricultural Center</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME LA 0202183		3. VARIETY NAME Jupiter	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) <b>Rice Research Station 1373 Caffey Road Rayne, LA 70578</b>		5. TELEPHONE (include area code) (337) 788-7531		FOR OFFICIAL USE ONLY PVPO NUMBER <b>200500285</b> FILING DATE <b>June 21, 2005</b>	
		6. FAX (include area code) (337) 788-7553			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) <b>University Research Center</b>		8. IF INCORPORATED, GIVE STATE OF INCORPORATION		9. DATE OF INCORPORATION	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) <b>Steve Linscombe and Xueyan Sha Rice Research Station 1373 Caffey Road Rayne, LA 70578</b>				FILING AND EXAMINATION FEES: F E E S R E C E I V E D \$ 3,652 - DATE 6/21/05 CERTIFICATION FEE: \$ 768.00 DATE 3/28/06	
11. TELEPHONE (Include area code) (337) 788-7531		12. FAX (Include area code) (337) 788-7553		13. E-MAIL xsha@agcenter.lsu.edu	
14. CROP KIND (Common Name) <b>Rice</b>		16. FAMILY NAME (Botanical) <b>Poaceae</b>		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP <b>Oryza sativa</b>		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input checked="" type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input type="checkbox"/> NO (If "no", go to item 23) 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER 			
NAME (Please print or type) <b>Steve Linscombe</b>		NAME (Please print or type) <b>Xueyan Sha</b>			
CAPACITY OR TITLE <b>Breeder</b>		DATE <b>06/01/2005</b>		CAPACITY OR TITLE <b>Breeder</b>	
				DATE <b>06/01/2005</b>	

(See reverse for instructions and information collection burden statement)

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**Plant Variety Protection Office**

**Telephone: (301) 504-5518**

**FAX: (301) 504-5291**

**Homepage:** <http://www.ams.usda.gov/science/pvpo/pvindex.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 <http://www.ams.usda.gov/lsg/seed.htm>.

## ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;  
(2) the details of subsequent stages of selection and multiplication;  
(3) evidence of uniformity and stability; and  
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:  
(1) identify these varieties and state all differences objectively;  
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and  
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

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**22. CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

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**23. CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

United States - January 10, 2005

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**24. CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

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**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

## EXHIBIT A

## Jupiter – Development History

Pedigree: Bengal/Rico 1/3/Bengal//Mercury/Rico 1

Year	Generation	ID
1996	Cross	96CR025
1997	F <sub>1</sub>	97T1025
1998	F <sub>2</sub>	98F7049
1999	F <sub>3</sub>	9925755
2000	F <sub>4</sub>	0002840 (Preliminary Yield Trial)
2001	F <sub>5</sub>	0102840 (Preliminary Yield Trial)
2002	F <sub>6</sub>	0202183 (Uniform Regional Nursery – Commercial Advanced Yield Trial)
2003	F <sub>7</sub>	0202183 (Uniform Regional Nursery – Commercial Advanced Yield Trial)
2003	F <sub>8</sub>	Headrow Increase – Puerto Rico
2004	F <sub>9</sub>	Headrow Increase – Puerto Rico
2004	F <sub>10</sub>	Breeder – Foundation Seed
2005	F <sub>11</sub>	Foundation Seed Planted by Commercial Seed Producers

Details of Selection and Multiplication

Jupiter was developed by pedigree selection of a cross “Bengal/Rico 1/3/Bengal//Mercury/Rico 1” made in 1996. Ten F<sub>1</sub> plants were planted in 1997, and bulked seeds of these plants were planted in 1998 as a F<sub>2</sub> population. One panicle was selected from each of 55 F<sub>2</sub> plants and these were planted as F<sub>3</sub> panicle rows in 1999. Row number 9925755 was selected for advancement. Ten panicles were selected from this row, and the remaining seed was bulked. The bulked seeds were used for yield trials in 2000, while the 10 panicles were planted as F<sub>4</sub> panicle rows at the same season. This line was reselected and grown as panicle rows from 2001 (F<sub>5</sub>) to 2003 (F<sub>7</sub>) as yield, agronomic, and quality evaluation continued. A 100-panicle row (F<sub>8</sub>) increase was planted at the winter nursery facility in Puerto Rico in the fall of 2003. From these rows, 300 panicles were selected and replanted in Puerto Rico in December 2003 (F<sub>9</sub>). Bulked seeds from these 300 rows were used to produce breeder/foundation seeds at the Rice Research Station in 2004 (F<sub>10</sub>). That foundation seed was released to commercial seed growers in the summer of 2005.

The selection criteria for Jupiter at all generations include superior grain and milling yields, outstanding grain quality, good disease resistance (esp. blast, panicle blight, and straighthead), short stature, and earliness.

Jupiter has been observed for four generations of increase (2002-2004) and showed a high level of uniformity and stability.

Variants observed and removed from increase fields of Jupiter included any combination of the following: taller, shorter, pubescent, awned grain, short grain, earlier, later, straw-colored apiculus, and gold hull. The total number of variants numbered less than 1 per 5000 plants.

## EXHIBIT B

## Statement of Distinctness

## JUPITER

Jupiter is an early maturing, semidwarf, high yielding medium-grain rice variety. It was derived from the cross 'Bengal/Rico 1/3/Bengal//Mercury/Rico 1' made in 1996. Jupiter has averaged 84 days to 50% heading, compared with 85 and 84 for Bengal and Medark, respectively. Average plant height (cm) is 96 for Jupiter, compared with 96 and 95 for Bengal and Medark, respectively.

The leaves, lemma, and palea of Jupiter are glabrous. The spikelet is straw-colored. The apiculus is purple-colored at heading and mature. The grain is non-aromatic, non-glutinous, and displays a light brown pericarp.

Jupiter is most similar to rice variety Bengal and Medark. The differences between Jupiter and Bengal or Medark appear to be the following:

## Characteristic

	'Jupiter'	vs	'Bengal'
Panicle type	Compact		Intermediate
Apiculus color at maturity	Purple		Straw
	'Jupiter'	vs	'Medark'
Lemma color	Straw		Brown (tawny)
Apiculus color at maturity	Purple		Straw

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY  
Rice (*Oryza sativa*)

NAME OF APPLICANT(S) <b>Steve Linscombe and Xueyan Sha</b>	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or RD No., City, State, and Zip Code) <b>Rice Research Station, 1373 Caffey Road, Rayne, LA 70578</b>	PVPO NUMBER <b>200500285</b>
	VARIETY NAME <b>JUPITER</b>
	TEMPORARY OR EXPERIMENTAL DESIGNATION <b>LA 0202183</b>

## PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the character of this variety in the spaces provided below. These numbers are also code numbers corresponding to descriptors developed by IBGR-IRRI Rice Advisory Committee and the US Rice Crop Advisory Committee. Breeders will demonstrate distinctness more readily by describing as many characters as is possible.

## 1. MATURITY - Days to Heading (Seeding to 50% Heading):

A. South: (Location: Crowley, LA) at 160 kg/ha (Nitrogen Rate)84 Number of Days1 Days Earlier Than Check Variety: Bengal     Days Same As Check Variety: Medark     Days Later Than Check Variety:     1 Maturity Class (50% Heading) - South:

1 = Very Early (85 Days or Less) 2 = Early (86 - 100)  
3 = Intermediate (101 - 115) 4 = Late (More Than 115)

B. California: (Location:     ) at      kg/ha (Nitrogen Rate)     Number of Days     Days Earlier Than Check Variety:          Days Same As Check Variety:          Days Later Than Check Variety:          Maturity Class (50% Heading) - California:

1 = Very Early (90 Days or Less) 2 = Early (91 - 97)  
3 = Intermediate (98 - 104) 4 = Late (More Than 104)

## 2. CULM:

1 Angle (Degrees from Perpendicular after Flowering):

1 = Erect (Less than 30°) 3 = Intermediate (About 45°) 5 = Open (About 60°)

7 = Spreading (More than 60° but the culms do not rest on the ground)

9 = Procumbent (The culm or its lower part rests on the ground surface)

**2. CULM: (continued)****LENGTH****9.6 • 0** cm (Soil level to top of extended panicle on main stem)

cm Shorter Than

Check Variety:

Length Same as

Check Variety: Bengal**1 • 0** cm Longer ThanCheck Variety: Medark**1** Height Class: 1 = Semi dwarf 2 = Short 3 = Medium 4 = Tall**1** Internode Color (After Flowering): 1 = Green 2 = Light Gold 3 = Purple Lines 4 = Purple**3** Strength (Lodging Resistance): 1 = Strong (no Lodging) 3 = Moderately Strong (Most Plants Leaning)  
5 = Intermediate (Most Plants Lodged) 7 = Weak (Most Plants Flat)  
9 = Very Weak (All Plants Flat)**3. FLAG LEAF (After Heading):****3.3 • 0** cm Length**1.6 • 0** mm Width**1** Pubescence: 1 = Glabrous 2 = Intermediate 3 = Pubescent**1** Leaf Angle (After Heading): 1 = Erect 3 = Intermediate 5 = Horizontal 7 = Descending**3** Blade Color: 1 = Pale Green 2 = Green 3 = Dark Green 4 = Purple Tips  
5 = Purple Margins 6 = Purple Blotch 7 = Purple**1** Basal Leaf Sheath Color: 1 = Green 2 = Purple Lines 3 = Light Purple 4 = Purple**4. LIGULE:****9 • 0** mm Length (From base of collar to the tip, at late vegetative stage)**1** Color (Late Vegetative Stage): 1 = White 2 = Purple Lines 3 = Purple**2** Shape: 1 = Acute to Acuminate 2 = 2-Cleft 3 = Truncate**1** Collar Color (Late Vegetative Stage): 1 = Pale Green 2 = Green 3 = Purple**1** Auricle Color (Late Vegetative Stage): 1 = Pale Green 2 = Purple**5. PANICLE:****2.2 • 0** cm Length**1** Type: 1 = Compact 5 = Intermediate 9 = Open**2** Secondary Branching: 1 = Absent 2 = Light 3 = Heavy 4 = Clustering**2** Exsertion (Near Maturity): 1 = Less than 90% 2 = 90 – 99% 3 = 100% Exserted**2** Axis: 1 = Straight 2 = Droopy**1** Shattering: 1 = Very Low (Less Than 1%) 3 = Low (1 – 5%) 5 = Moderate (6 – 25%)  
7 = Moderately High (26 – 50%) 9 = High (More than 50%)**2** Threshability: 1 = Difficult 2 = Intermediate 3 = Easy**6. GRAIN (Spikelet):****0** Awns (After Full Heading): 0 = Absent 1 = Short and Partly Awned 5 = Short and Fully Awned  
7 = Long and Partly Awned 9 = Long and Fully Awned**6** Apiculus Color (At Maturity): 1 = White 2 = Straw 3 = Brown (Tawny) 4 = Red  
5 = Red Apex 6 = Purple 7 = Purple Apex**1** Stigma Color: 1 = White 2 = Light Green 3 = Yellow 4 = Light Purple 5 = Purple

**6. GRAIN (Spikelet):**0 Lemma and Palea Color (At Maturity):

0 = Straw	1 = Gold and/or Gold Furrows on Straw Background	2 = Brown Spots on Straw (Piebald)
3 = Brown Furrows on Straw	4 = Brown (Tawny)	5 = Reddish to Light Purple
6 = Purple Spots on Straw	7 = Purple Furrows on Straw	8 = Purple
9 = Black	10 = White	

1 Lemma and Palea Pubescence:

1 = Glabrous	2 = Hairs on Lemma Keel	3 = Hairs on Upper Portion
4 = Short Hairs	5 = Long Hairs (Velvety)	

1 Spikelet Sterility (At Maturity):

1 = Highly Fertile (> 90%)	3 = Fertile (75 – 90%)	5 = Partly Sterile (50 – 74%)
7 = Highly Sterile (< 50% to Trace)	9 = Completely Sterile (0%)	

**7. GRAIN (Seed):**2 Seed Coat (Bran) Color:

1 = White	2 = Light Brown	3 = Speckled Brown	4 = Brown
5 = Red	6 = Variable Purple	7 = Purple	

1 Endosperm Type:

1 = Nonglutinous (Nonwaxy)	2 = Glutinous (Waxy)	3 = Indeterminate
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1 Endosperm Translucency:

1 = Clear	5 = Intermediate	9 = Opaque
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1 Endosperm Chalkiness:

0 = None	1 = Small (Less than 10% of Sample)
5 = Medium (10 – 20% of Sample)	9 = Large (More than 20% of Sample)

0 Scent (Aroma):

0 = Nonscented	1 = Lightly Scented	2 = Scented
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## Shape Class (Length/Width Ratio):

2 Paddy

1 = Short (2.2:1 and Less)	2 = Medium (2.3:1 to 3.3:1)	3 = Long (3.4:1 and More)
----------------------------	-----------------------------	---------------------------

2 Brown

1 = Short (2.0:1 and Less)	2 = Medium (2.1:1 to 3.0:1)	3 = Long (3.1:1 and More)
----------------------------	-----------------------------	---------------------------

2 Milled

1 = Short (1.9:1 and Less)	2 = Medium (2.0:1 to 2.9:1)	3 = Long (3.0:1 and More)
----------------------------	-----------------------------	---------------------------

## Measurements:

## Grain Form

	Length (mm)	Width (mm)	Thickness (mm)	LW Ratio	1000 Grains (grams)
Paddy	<u>7.88</u>	<u>3.23</u>	<u>2.20</u>	<u>2.44</u>	<u>27.31</u>
Brown	<u>5.86</u>	<u>2.82</u>	<u>1.97</u>	<u>2.10</u>	<u>22.49</u>
Milled	<u>5.43</u>	<u>2.67</u>	<u>1.89</u>	<u>2.03</u>	<u>20.30</u>

19.7 Milling Quality (% Hulls)65.5 Milling Yield (% White Kernel (head) Rice to Rough Rice)     % Protein14.5 % AmyloseAlkali Spreading Value: 6.1 1.5% KOH Solution     1.7% KOH Solution7 Gelatinization Temperature Type:

1 = High	5 = Intermediate	7 = Low
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## Amylographic Paste Viscosity (Brabender Units)

## Peak

## Hot Paste

## Cooled Paste

## 'Breakdown' 'Setback'

**8. RESISTANCE TO LOW TEMPERATURE:**2 Germination and Seedling Vigor:

1 = Low	2 = Medium	3 = High
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3 Flowering (Spikelet Fertility):

1 = Low	2 = Medium	3 = High
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**9. SEEDLING VIGOR NOT RELATED TO LOW TEMPERATURE:**2 Vigor:

1 = Low	2 = Medium	3 = High
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**10. BLAST RESISTANCE: (*Pyricularia oryzae*). (International races found under References)**

0 = Immune      1 = Resistant      3 = Moderately Resistant      5 = Intermediate      7 = Moderately Susceptible      9 = Susceptible

Group	IB		IC		ID		IE		IG		IH	
Number	1	5	45	49	54	1	17	1	13	1	1	1
Resistance	—	—	—	9	0	—	7	—	—	5	9	—

**11. RESISTANCE TO OTHER DISEASES:**

0 = Immune      1 = Resistant      3 = Moderately Resistant      5 = Intermediate      7 = Moderately Susceptible      9 = Susceptible

- |  |  |
|--|--|
| <u>1</u> Narrow Brown Leaf Spot ( <i>Cerospora oryzae</i> )  | <u>—</u> Aggregate Sheath Spot ( <i>Rhizoctonia Oryzae-sativae</i> )                 |
| <u>5</u> Leaf Smut ( <i>Entyloma oryzae</i> )  | <u>3</u> Straight Head   |
| <u>3</u> Brown Leaf Spot ( <i>Helminthosporium oryzae</i> )<br>(= <i>Bipolaris oryzae</i> )<br>(= <i>Drechslera oryzae</i> ) | <u>—</u> Kernel Smut ( <i>Neovossia horrida</i> )<br>(= <i>Tilletia barclayana</i> ) |
| <u>—</u> Leaf Scald ( <i>Gerlachia oryzae</i> )  | <u>—</u> White Tip Nematode ( <i>Aphelenchoides besseyi</i> )                        |
| <u>—</u> Hoja Blanca Virus   | <u>—</u> Stem Rot ( <i>Sclerotium oryzae</i> )                                       |
| <u>—</u> Sheath Rot ( <i>Sarocladium oryzae</i> )  | <u>—</u> Bacterial Blight ( <i>Xanthomonas campestris pv. oryzae</i> )               |
| <u>—</u> Pythium Seedling Blight ( <i>Pythium sp.</i> )  | <u>5</u> Sheath Blight ( <i>Rhizoctonia solani</i> )                                 |
| <u>—</u> Sheath Spot ( <i>Rhizoctonia oryzae</i> )   |  |
| <u>—</u> Other: _____  |  |

**12. INSECT RESISTANCE:**

0 = Immune      1 = Resistant      3 = Moderately Resistant      5 = Intermediate      7 = Moderately Susceptible      9 = Susceptible

- |                          |   |
|--------------------------|---|
| <u>—</u> Grasshopper     | <u>9</u> Rice Stink Bug ( <i>Oegalus pugnax</i> )               |
| <u>—</u> Rice Leafhopper | <u>—</u> Swarm Caterpillar                                      |
| <u>—</u> Rice Hispa      | <u>9</u> Rice Water Weevil ( <i>Lissorhoptrus oryzophilus</i> ) |
| <u>—</u> Rice Midge      | <u>—</u> Rice Stalk Borer ( <i>Chilo plejadellus</i> )          |
| <u>—</u> Least Skipper   | <u>—</u> Sugarcane Borer ( <i>Diatraea saccharalis</i> )        |

**13. OTHER DESCRIPTORS:** If there are other characters that describe this variety, please indicate below:**REFERENCES**

- C. R. Adair *et al.* 1972. Rice in the United States: Varieties and Production. USDA Handbook No. 289 (Rev.), 124 pp.
- J. G. Atkins *et al.* 1967. An International Set of Rice Varieties for Differentiating Race of *Pyricularia Oryzae*. Phytopath. 57:297-301.
- IBPGR-IRRI Rice Advisory Committee. 1980. Descriptors for Rice *Oryzae sativa* L. International Rice Research Institute. 21 pp.
- K. C. Ling and S. H. Ou, 1969. Standardization of the International Race Numbers of *Pyricularia Oryzae*. Phytopath. 59:339-342.
- B. D. Webb *et al.* 1985. Utilization Characteristics and Qualities of United States Rice. In Proceedings on Rice Grain Quality and Marketing. International Rice Research Institute (IRRI), Los Branos, Philippines. P. 25-35.

1

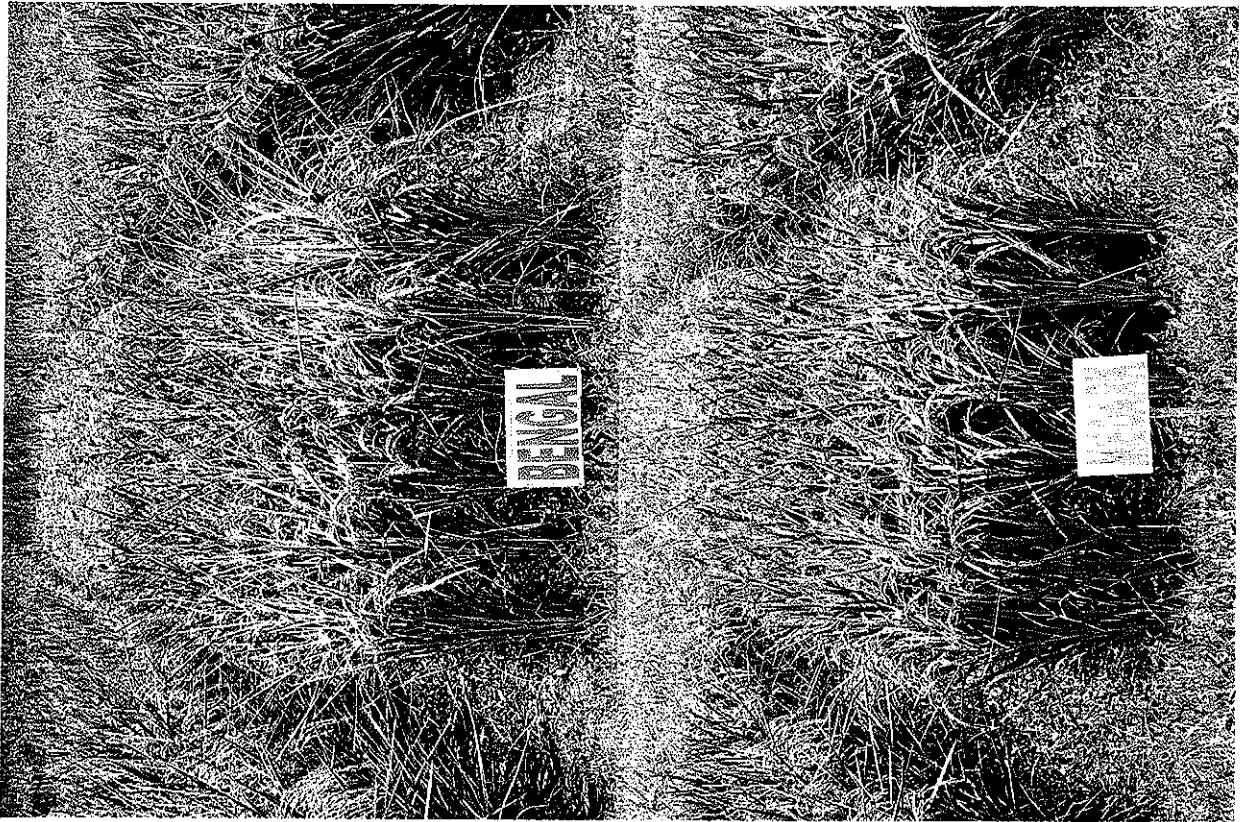


EXHIBIT D

## EXHIBIT D

2

**2004 Commercial Advanced Yield Trial  
Rice Research Station, Crowley, La.**

Entry	Pedigree	Days to		Height (cm)	Mil. % Whole Gr.	Mil. % Total Gr.	Grain Yield	Ratoon Yield	Total Yield
		50 % Heading							
201	CL 121	88	94	62.3	68.8	6916	1945	8861	
202	CL 020	91	94	64.6	69.9	7206	2163	9369	
203	CL 161	94	110	62.9	69.0	7290	2142	9432	
204	CL 029	92	104	61.9	69.1	7297	2256	9553	
205	CYPRESS	92	104	64.4	70.0	7163	1735	8897	
206	CHENIERE	91	100	61.4	70.3	7594	1565	9159	
207	COCODRIE	89	97	59.7	68.3	7615	1581	9196	
208	WELLS	93	115	57.3	68.2	6571	2695	9266	
209	FRANCIS	91	104	61.0	69.8	7193	2401	9594	
210	MEDARK	92	102	67.3	71.1	7040	2988	10028	
211	JEFFERSON	84	97	61.8	70.1	6598	2363	8961	
212	CYBONNET	90	103	64.3	70.2	7398	2389	9787	
213	PIROGUE	95	103	60.8	69.1	5746	1717	7463	
214	BENGAL	93	98	67.6	70.5	5870	2493	8363	
215	BANKS	93	116	62.1	69.6	7490	2692	10182	
216	DELLROSE	92	115	62.2	70.2	6163	2878	9041	
217	DELLA	93	149	49.2	67.4	5143	1003	6146	
218	DELLMATI	87	122	50.4	68.1	4430	2508	7338	
219	RU0202002 9502008/3/CPRS//82CAY21/TBNT	86	101	61.4	68.5	7845	1573	9418	
220	RU0302005 TACAURI/3/CPRS//82CAY21/TBNT	92	103	61.2	68.1	8082	2521	10603	
221	TRENASSE	81	108	52.1	63.0	6795	2166	8961	
222	RU0402022 9502008/3/MBLE//LMNT/20001-5	89	106	62.3	68.2	7437	2032	9469	
223	RU0202195 NWBT/KATY//9902207x2	87	99	64.2	70.2	7708	1781	9489	
224	RU0202192 DREW/3/CPRS//82CAY21/TBNT	89	103	61.8	68.9	6729	2203	8932	
225	RU0402065 9502008-A/DREW	89	101	62.4	68.7	7703	1931	9634	
226	RU0402068 9502008-A/DREW	88	104	59.0	65.6	8224	1770	9994	
227	RU0402094 9502008/3/CPRS//82CAY21/TBNT	87	101	60.0	66.5	7146	2338	9484	
228	RU0302082 9502008-A/DREW	89	101	64.7	70.9	7771	2372	10143	
229	RU0302094 9502008-A/DREW	88	103	60.6	66.6	8195	1902	10097	
230	RU0402097 9502008-A//AR 1188/CCDR	89	99	63.2	69.2	8072	1663	9735	
231	RU0402103 9502008//KATY/902207x2	87	108	59.6	67.9	7416	2711	10127	

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**2004 Commercial Advanced Yield Trial  
Rice Research Station, Crowley, La.**

Entry	Pedigree	Days to		Height (cm)	Mil. %		Grain Yield	Ratoon Yield	Total Yield
		50% Heading	Mil. % Whole Gr.		Total Gr.				
232	RU0202140 JSMN/DLLA	94	47.0	104	63.5	6584	1899	8483	
233	JUPITER (RU0202183)	95	66.8	103	70.1	7476	2378	9854	
234	RU0402028 BNGL/MERC/RICO/3/MERC/...	94	67.5	100	70.1	7619	2964	10583	
235	RU0402125 96 INT/AR 1188	94	66.2	113	70.2	7324	824	8148	
236	RU0402140 MERC/RICO/BNGL/3/SMARS/...	95	64.7	101	67.8	6035	3489	9524	
237	RU0402146 MERC/RICO/MERC/3/MERC/...	91	64.8	102	69.5	6540	1512	8052	
238	RU0402183 9502065/3/MERC/RICO/BNGL	93	63.5	98	66.5	6356	2586	8942	
239	RU0402011 61764DH3	91	66.1	109	69.1	7031	1602	8633	
240	RU0402042 AC110DH2/AC108DH2	90	65.2	101	71.3	7014	2437	9451	
241	RU0402051 DREW/AC167DH1	92	63.1	109	68.4	6956	2923	9879	
242	RU0402062 0043752/0047277	89	61.3	105	68.7	7284	1917	9201	
243	RU0402085 0043676/AC105DH3	87	65.1	100	69.3	7338	1262	8600	
244	RU0402088 AC111DH3/AC468DH2	90	60.9	101	68.5	6593	1841	8434	
245	RU0402091 9863910DH2/AR 1053	91	61.1	115	70.7	7461	3083	10544	
246	RU0202091 9865216DH2	91	66.9	110	70.2	7137	1640	8777	
247	RU0402128 0043752/0047277	89	60.4	104	67.2	7258	1649	8907	
248	RU0402149 AC101DH2/AC102DH2	90	59.5	95	69.5	7038	1903	8941	
249	RU9903092 VSTA/LBNT//RSMT/3/MBLE	90	62.5	101	69.3	6612	3397	10009	
250	RU0103123 8902207x2-25KR/DXBL	92	61.9	94	68.2	6420	2042	8462	
251	RU0101093 9101001//TBNT/KATY/3/LGRU	84	60.1	104	69.7	6046	2124	8170	
252	RU0104055 L201//TBNT/BLMT	94	59.1	101	68.9	5493	2968	8461	
253	CLXL 8	90	53.5	123	67.8	8171	4221	12392	
254	XP 710	92	57.7	118	69.6	8055	3153	11208	
255	XP 712	92	62.9	120	69.9	8290	4453	12743	
256	XP 716	94	68.4	122	71.4	7739	4637	12376	
257	XP 723	90	65.2	118	72.3	9423	4057	13480	
258	AB 8198	90	48.9	115	66.4	6187	2761	8948	
259	AB 8649	88	56.4	111	68.5	6177	2291	8468	
260	AB 8684	94	67.6	101	70.1	6224	2527	8751	
c.v. %		1.5	3.6	3.8	2.2	7.7	12.2	6.2	
LSD <sub>0.05</sub>		2.1	4.4	6.4	3.0	873	466	936	

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## EXHIBIT D

4

2004 Commercial Advanced Yield Trial  
Acadia Parish, Mowata, La.

Entry	Pedigree	Days to 50 % Heading	Height (cm)	Mil. % Whole Gr.	Mil. % Total Gr.	Grain Yield
201	CL 121	86	92	56.8	72.7	5001
202	CL 020	89	92	67.2	72.2	6712
203	CL 161	93	99	67.4	71.1	6286
204	CL 029	91	95	67.1	72.4	5904
205	CYPRESS	91	98	68.2	72.1	5635
206	CHENIERE	90	90	68.3	72.5	5676
207	COCODRIE	89	96	67.5	72.5	6361
208	WELLS	92	102	60.8	71.3	5657
209	FRANCIS	92	100	62.5	70.6	6667
210	MEDARK	89	91	66.8	69.2	6216
211	JEFFERSON	85	90	67.6	72.2	4839
212	CYBONNET	91	94	67.8	72.8	5478
213	PIROGUE	89	90	64.0	69.6	4577
214	BENGAL	90	94	67.0	70.6	6346
215	BANKS	93	105	59.0	68.1	6598
216	DELLROSE	90	95	62.4	72.0	3874
217	DELLA	94	118	64.0	70.4	4625
218	DELLMATI	85	116	54.7	69.9	3261
219	RU0202002 9502008/3/CPRS//82CAY21/TBNT	88	96	64.8	72.0	5916
220	RU0302005 TACAURI/3/CPRS//82CAY21/TBNT	90	91	64.0	71.9	6210
221	TRENASSE	83	101	63.5	70.7	7337
222	RU0402022 9502008/3/MBLE//LMNT/20001-5	89	99	63.2	70.4	6381
223	RU0202195 NWBT/KATY//9902207x2	85	94	65.7	72.2	7069
224	RU0202192 DREW/3/CPRS//82CAY21/TBNT	91	98	65.6	72.5	6042
225	RU0402065 9502008-A/DREW	86	97	63.0	71.8	7084
226	RU0402068 9502008-A/DREW	90	98	64.6	72.2	6988
227	RU0402094 9502008/3/CPRS//82CAY21/TBNT	88	100	66.8	71.3	6671
228	RU0302082 9502008-A/DREW	90	95	65.3	73.5	6570
229	RU0302094 9502008-A/DREW	88	100	64.7	72.3	6843
230	RU0402097 9502008-A//AR 1188/CDDR	88	96	65.0	72.4	6722
231	RU0402103 9502008//KATY/902207x2	84	102	65.4	70.6	6636
232	RU0202140 JSMN/DLLA	88	93	59.8	68.4	5622
233	JUPITER (RU0202183)	91	89	64.8	69.4	5180

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2004 Commercial Advanced Yield Trial  
Acadia Parish, Mowata, La.

Entry	Pedigree	Days to 50 % Heading	Height (cm)	Mil. % Whole Gr.	Mil. % Total Gr.	Grain Yield
234	RU0402028 BNGL/MERC/RICO/3/MERC/...	91	89	65.5	70.0	5681
235	RU0402125 96 INT/AR 1188	93	104	66.4	69.7	6055
236	RU0402140 MERC/RICO/BNGL/3/SMARS/...	90	89	63.1	71.7	5599
237	RU0402146 MERC/RICO/MERC/3/MERC/...	85	92	67.4	70.8	5413
238	RU0402183 9502065/3/MERC/RICO/BNGL	89	84	66.1	72.0	5517
239	RU0402011 61764DH3	86	100	67.1	70.3	6648
240	RU0402042 AC110DH2/AC108DH2	89	93	61.3	71.4	5845
241	RU0402051 DREW/AC167DH1	92	101	64.1	70.4	5497
242	RU0402062 0043752/0047277	88	98	66.4	71.6	6353
243	RU0402085 0043676/AC105DH3	87	97	67.0	71.7	6816
244	RU0402088 AC111DH3/AC468DH2	92	96	65.7	71.3	6181
245	RU0402091 9863910DH2/AR 1053	92	107	63.8	70.7	6973
246	RU0202091 9865216DH2	87	97	66.3	69.4	6217
247	RU0402128 0043752/0047277	90	101	67.4	71.9	6817
248	RU0402149 AC101DH2/AC102DH2	91	97	66.7	72.6	6170
249	RU9903092 VSTA/LENT/RSMT/3/MBLE	89	94	61.6	71.0	5270
250	RU0103123 8902207x2-25KR/DXBL	92	93	68.2	71.5	6028
251	RU0101093 9101001/TBNT/KATY/3/LGRU	84	103	63.8	70.9	5621
252	RU0104055 L201/TBNT/BLMT	92	100	62.3	69.1	4790
253	CLXL 8	91	119	63.9	71.5	7749
254	XP 710	91	117	60.0	71.4	9314
255	XP 712	89	117	64.7	70.6	7593
256	XP 716	91	118	67.9	70.6	8123
257	XP 723	89	117	66.4	73.2	9034
258	AB 8198	89	107	53.2	69.6	5675
259	AB 8649	91	104	59.9	71.6	5805
260	AB 8684	90	93	68.7	72.3	6059
c.v. %		1.5	3.8	2.1	0.9	7.5
LSD <sub>0.05</sub>		2.1	6.1	2.6	1.3	746

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2004 Commercial Advanced Yield Trial  
Jeff Davis Parish, Fenton, La.

Entry	Pedigree	Vigor	Days to 50% Heading	Height (cm)	Lodging (%)	Grain Yield
201	CL 121	5	85	88		5157
202	CL 020	4	88	86	57	3526
203	CL 161	4	91	96	33	3708
204	CL 029	4	89	89		3957
205	CYPRESS	4	92	92	7	4739
206	CHENIERE	5	90	91		5647
207	COCODRIE	4	89	93		4810
208	WELLS	4	90	97		4927
209	FRANCIS	5	87	97		5823
210	MEDARK	4	92	92		5982
211	JEFFERSON	6	82	88		6096
212	CYBONNET	4	89	93	13	4454
213	PIROGUE	5	92	98		6238
214	BENGAL	4	93	90		5744
215	BANKS	5	92	102		6464
216	DELLROSE	6	91	97	40	5010
217	DELLA	6	93	125	27	4215
218	DELLMATI	5	82	108	63	3240
219	RU0202002 9502008/3/CPRS//82CAY21/TBNT	5	86	93	10	4709
220	RU0302005 TACAURI/3/CPRS//82CAY21/TBNT	5	86	90	80	3470
221	TRENASSE	5	80	89	23	3805
222	RU0402022 9502008/3/MBLE//LMNT/20001-5	4	87	85	10	3852
223	RU0202195 NWBT/KATY//9902207x2	5	87	89		5423
224	RU0202192 DREW/3/CPRS//82CAY21/TBNT	6	89	99	10	6372
225	RU0402065 9502008-A/DREW	5	88	86	10	4158
226	RU0402068 9502008-A/DREW	5	89	93		4408
227	RU0402094 9502008/3/CPRS//82CAY21/TBNT	5	88	91		5567
228	RU0302082 9502008-A/DREW	6	90	86	13	4604
229	RU0302094 9502008-A/DREW	5	89	87	27	4063
230	RU0402097 9502008-A//AR 1188/CDDR	5	88	92	10	4672
231	RU0402103 9502008//KATY/902207x2	5	87	100		6759
232	RU0202140 JSMN/DLLA	6	94	96		5375
233	JUPITER (RU0202183)	6	93	97		7456

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## EXHIBIT D

7

2004 Commercial Advanced Yield Trial  
Jeff Davis Parish, Fenton, La.

Entry	Pedigree	Vigor	Days to 50% Heading	Height (cm)	Lodging (%)	Grain Yield
234	RU0402028 BNGL/MERC/RICO/3/MERC/...	5	93	92		6626
235	RU0402125 96 INT/AR 1188	5	91	99		5883
236	RU0402140 MERC/RICO//BNGL/3/SMARS/...	5	93	90		5866
237	RU0402146 MERC/RICO//MERC/3/MERC/...	5	90	92		5889
238	RU0402183 9502065/3/MERC/RICO//BNGL	5	91	89		5955
239	RU0402011 61764DH3	5	90	101		7041
240	RU0402042 AC110DH2/AC108DH2	5	89	91	37	4474
241	RU0402051 DREW/AC167DH1	4	89	102		5109
242	RU0402062 0043752/0047277	4	88	97	7	4623
243	RU0402085 0043676/AC105DH3	4	88	91	20	4459
244	RU0402088 AC111DH3/AC468DH2	5	91	95	37	3307
245	RU0402091 9863910DH2/AR 1053	5	87	105	30	5069
246	RU0202091 9865216DH2	4	90	104		6896
247	RU0402128 0043752/0047277	5	88	92		4601
248	RU0402149 AC101DH2/AC102DH2	5	94	91		6802
249	RU9903092 VSTA/LBNT//RSMT/3/MBLE	5	88	92		6227
250	RU0103123 8902207x2-25KR/DXBL	4	89	90	17	4286
251	RU0101093 9101001//TBNT/KATY/3/LGRU	4	82	96	47	4256
252	RU0104055 L201//TBNT/BLMT	6	90	92		6401
253	CLXL 8	3	85	104		6653
254	XP 710	4	86	103		8093
255	XP 712	4	91	107		7846
256	XP 716	5	93	113		8883
257	XP 723	5	90	105		7176
258	AB 8198	5	88	103		5842
259	AB 8649	4	88	96	37	4504
260	AB 8684	4	92	90		5980
c.v. %		13.5	1.9	4.5		9.1
LSD <sub>0.05</sub>		1.0	2.7	6.9		797

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## EXHIBIT D

8

2004 Commercial Advanced Yield Trial  
Vermilion Parish, Pine Island, La.

Entry	Pedigree	Vigor	Days to 50% Heading	Height (cm)	Lodging (%)	Grain Yield
201	CL 121	6	79	87		4593
202	CL 020	3	81	86		5158
203	CL 161	5	82	95		5152
204	CL 029	4	82	97		5270
205	CYPRESS	4	82	95		5109
206	CHENIERE	4	82	93		5592
207	COCODRIE	5	78	93		5582
208	WELLS	4	84	103		5395
209	FRANCIS	6	81	98		5072
210	MEDARK	4	83	91	7	4605
211	JEFFERSON	6	74	97		4057
212	CYBONNET	4	81	96		4954
213	PIROGUE	6	84	95		5648
214	BENGAL	4	83	97		5466
215	BANKS	4	84	110		5146
216	DELLROSE	5	83	96		4107
217	DELLA	6	85	128		3223
218	DELLMATI	6	75	120		2406
219	RU020202 9502008/3/CPRS//82CAY21/TBNT	3	77	94		6079
220	RU0302005 TACAURI/3/CPRS//82CAY21/TBNT	5	80	91		5759
221	TRENASSE	5	72	97		5088
222	RU0402022 9502008/3/MBLE//LMNT/20001-5	4	80	90		5040
223	RU0202195 NWBT/KATY//9902207x2	4	79	97		4803
224	RU0202192 DREW/3/CPRS//82CAY21/TBNT	5	81	102		5335
225	RU0402065 9502008-A/DREW	4	78	94		5761
226	RU0402068 9502008-A/DREW	4	79	98		5790
227	RU0402094 9502008/3/CPRS//82CAY21/TBNT	4	79	97		5511
228	RU0302082 9502008-A/DREW	4	81	93		5124
229	RU0302094 9502008-A/DREW	4	79	97		5791
230	RU0402097 9502008-A//AR 1188/CCDR	4	79	97		5841
231	RU0402103 9502008//KATY/902207x2	5	75	100		5246
232	RU0202140 JSMN/DLLA	6	83	91		4597
233	JUPTIER (RU0202183)	5	83	91		5725

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2004 Commercial Advanced Yield Trial  
Vermilion Parish, Pine Island, La.

Entry	Pedigree	Vigor	Days to 50% Heading	Height (cm)	Lodging (%)	Grain Yield
234	RU0402028 BNGL/MERC/RICO/3/MERC/...	6	85	90		5807
235	RU0402125 96 INT/AR 1188	5	85	99		4811
236	RU0402140 MERC/RICO/BNGL/3/SMARS/...	5	85	88		4972
237	RU0402146 MERC/RICO/MERC/3/MERC/...	5	82	90		5086
238	RU0402183 9502065/3/MERC/RICO/BNGL	5	86	87		5387
239	RU0402011 61764DH3	5	81	99		5327
240	RU0402042 AC110DH2/AC108DH2	4	80	94		5688
241	RU0402051 DREW/AC167DH1	5	81	101		4340
242	RU0402062 0043752/0047277	4	79	101		5788
243	RU0402085 0043676/AC105DH3	4	80	92		5491
244	RU0402088 AC111DH3/AC468DH2	4	81	92		5012
245	RU0402091 9863910DH2/AR 1053	4	80	105		5006
246	RU0202091 9865216DH2	4	80	100		5550
247	RU0402128 0043752/0047277	5	79	101		5908
248	RU0402149 AC101DH2/AC102DH2	5	80	94		4635
249	RU9903092 VSTA/LBNT/RSMT/3/MBLE	4	80	100		4601
250	RU0103123 8902207x2-25KR/DXBL	4	82	92		4759
251	RU0101093 9101001/TBNT/KATY/3/LGRU	4	72	104		4588
252	RU0104055 L201/TBNT/BLMT	6	82	104		4694
253	CLXL 8	5	79	113		7049
254	XP 710	5	84	113		6849
255	XP 712	5	82	122		6831
256	XP 716	5	85	122		6621
257	XP 723	5	79	121		8181
258	AB 8198	4	80	101		4866
259	AB 8649	5	82	105		4357
260	AB 8684	4	83	93		4747
c.v. %		12.9	1.3	4.6		8.8
LSD <sub>0.05</sub>		1.0	1.7	7.4		746

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2004 Commercial Advanced Yield Trial  
Vermilion Parish, Lake Arthur, La.

ENT	Pedigree	Days to			Mil. % Whole Gr.	Mil. % Total Gr.	Grain Yield	Ratoon Yield	Total Yield
		Vigor	50% Heading	Height (cm)					
201	CL 121	5	81	93	68.2	74.0	5800	1935	7735
202	CL 020	4	84	89	68.8	73.6	5998	1551	7549
203	CL 161	4	88	103	67.9	72.5	5762	1988	7750
204	CL 029	4	86	107	68.1	73.4	5968	2366	8334
205	CYPRESS	4	88	98	67.3	72.4	6008	2167	8175
206	CHENIERE	5	88	99	69.4	73.4	6855	2029	8884
207	COCODRIE	5	86	101	67.9	72.9	6871	1313	8184
208	WELLS	4	91	108	63.0	72.2	6534	2633	9168
209	FRANCIS	6	89	101	61.4	70.1	6227	2332	8560
210	MEDARK	4	86	97	67.0	70.3	6882	2746	9628
211	JEFFERSON	7	83	94	65.1	72.1	5238	2002	7240
212	CYBONNET	5	88	100	65.3	71.8	6122	2304	8427
213	PIROGUE	5	87	109	65.7	72.2	8032	2671	10703
214	BENGAL	4	87	104	67.3	70.9	7276	2903	10179
215	BANKS	5	92	113	56.8	68.5	6525	2355	8881
216	DELLROSE	6	90	101	61.9	71.5	4514	3227	7740
217	DELLA	6	88	129	62.9	70.3	3758	1186	4943
218	DELLMATI	6	84	126	59.9	69.0	3369	2038	5407
219	RU0202002 9502008/3/CPRS//82CAY21/TBNT	5	85	104	69.5	73.6	6739	1406	8145
220	RU0302005 TACAURI/3/CPRS//82CAY21/TBNT	5	86	97	62.5	71.0	7071	2058	9129
221	TRENASSE	6	82	105	67.6	72.4	7049	2449	9498
222	RU0402022 9502008/3/MBLE//LMNT/20001-5	5	86	96	69.2	73.8	6599	2152	8751
223	RU0202195 NWBT/KATY//9902207x2	5	84	96	68.9	73.9	7451	1728	9180
224	RU0202192 DREW/3/CPRS//82CAY21/TBNT	5	87	99	69.5	72.9	6746	2664	9410
225	RU0402065 9502008-A/DREW	5	85	103	68.6	73.9	7294	1554	8848
226	RU0402068 9502008-A/DREW	4	85	97	67.1	73.2	6775	1591	8366
227	RU0402094 9502008/3/CPRS//82CAY21/TBNT	4	84	98	67.6	73.0	6487	2623	9110
228	RU0302082 9502008-A/DREW	5	85	101	66.3	74.1	6872	2558	9430
229	RU0302094 9502008-A/DREW	5	84	99	66.9	72.6	6329	1509	7839
230	RU0402097 9502008-A//AR 1188/CCDR	4	85	100	68.5	73.5	6369	965	7334
231	RU0402103 9502008//KATY/902207x2	5	82	111	64.4	71.2	7802	2957	10759
232	RU0202140 ISMN/DLLA	6	86	102	60.9	68.4	6226	2130	8357

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**2004 Commercial Advanced Yield Trial  
Vermilion Parish, Lake Arthur, La.**

ENT	Pedigree	Days to			Height (cm)	Mil. %		Grain Yield	Ratoon Yield	Total Yield
		Vigor	50% Heading	Whole Gr.		Total Gr.				
233	JUPITER (RU0202183)	5	87	68.9	97	71.8	8703	3427	12130	
234	RU0402028 BNGL/MERC/RICO/3/MERC/...	4	26	69.3	98	72.2	7997	4351	12348	
235	RU0402125 96 INT/AR 1188	4	87	65.1	115	70.1	6718	1569	8287	
236	RU0402140 MERC/RICO/BNGL/3/SMARS/...	4	88	66.0	99	69.8	7338	2982	10320	
237	RU0402146 MERC/RICO/MERC/3/MERC/...	4	86	68.9	101	71.7	6916	2555	9471	
238	RU0402183 9502065/3/MERC/RICO/BNGL	4	87	68.2	94	71.9	7550	3046	10596	
239	RU0402011 61764DH3	5	84	66.7	113	70.4	8238	3969	12207	
240	RU0402042 AC110DH2/AC108DH2	5	86	68.6	103	74.4	6585	3108	9693	
241	RU0402051 DREW/AC167DH1	5	91	61.9	111	70.2	6277	3128	9405	
242	RU0402062 0043752/0047277	4	84	66.7	106	72.6	6655	1438	8093	
243	RU0402085 0043676/AC105DH3	4	85	69.6	100	72.7	7444	1862	9307	
244	RU0402088 AC111DH3/AC468DH2	5	88	69.5	101	72.4	6404	1433	7837	
245	RU0402091 9863910DH2/AR 1053	4	88	66.3	116	73.4	7627	2970	10597	
246	RU0202091 9865216DH2	4	85	69.1	112	72.1	8378	3872	12251	
247	RU0402128 0043752/0047277	5	85	70.5	105	73.8	6945	1554	8499	
248	RU0402149 AC101DH2/AC102DH2	4	88	66.4	100	73.7	6895	2719	9614	
249	RU9903092 VSTA/LBNT//RSM/3/MBLE	5	86	67.6	101	72.2	5947	3707	9655	
250	RU0103123 8902207x2-25KR/DXBL	5	87	68.4	99	71.8	6327	2744	9071	
251	RU0101093 9101001//TBNT/KATY/3/LGRU	4	78	65.1	112	73.5	6193	3247	9439	
252	RU0104055 L201//TBNT/BLMT	6	89	63.7	98	70.0	6402	4106	10508	
253	CLXL 8	5	81	64.5	118	73.2	8252	2676	10928	
254	XP 710	4	89	56.6	112	69.7	9233	4252	13485	
255	XP 712	4	86	66.3	118	70.8	8601	4817	13418	
256	XP 716	6	90	66.4	121	70.3	8594	5232	13825	
257	XP 723	5	86	67.9	120	73.5	10066	4770	14835	
258	AB 8198	4	87	56.6	116	71.2	6873	2856	9729	
259	AB 8649	5	88	57.8	109	71.0	6624	3115	9739	
260	AB 8684	4	89	68.2	95	71.6	7119	3317	10436	
c.v. %		12.8	1.5	2.8	4.0	1.2	7.1	14.5	6.8	
LSD <sub>0.05</sub>		1.0	2.1	3.7	6.7	1.8	784	614	1048	

**2004 Commercial Advanced Yield Trial**  
**Evangeline Parish, Mamou, La.**

ENT	Pedigree	Days to 50% Heading	Height (cm)	Grain Yield
201	CL 121	84	90	6268
202	CL 020	87	91	7092
203	CL 161	87	99	7149
204	CL 029	87	105	7012
205	CYPRESS	87	101	7019
206	CHENIERE	87	98	7484
207	COCODRIE	86	100	7145
208	WELLS	87	110	7914
209	FRANCIS	87	110	8075
210	MEDARK	89	98	6333
211	JEFFERSON	79	100	5721
212	CYBONNET	86	101	7512
213	PIROGUE	94	110	6617
214	BENGAL	90	102	6489
215	BANKS	89	119	8416
216	DELLROSE	87	104	5692
217	DELLA	91	129	5037
218	DELLMATI	82	118	4080
219	RU0202002 9502008/3/CPRS//82CAY21/TBNT	84	101	7638
220	RU0302005 TACAURI/3/CPRS//82CAY21/TBNT	86	97	7003
221	TRENASSE	79	113	7057
222	RU0402022 9502008/3/MBLE/LMNT/20001-5	86	99	7300
223	RU0202195 NWBT/KATY//9902207x2	85	98	7546
224	RU0202192 DREW/3/CPRS//82CAY21/TBNT	87	105	7438
225	RU0402065 9502008-A/DREW	85	102	7886
226	RU0402068 9502008-A/DREW	85	103	7917
227	RU0402094 9502008/3/CPRS//82CAY21/TBNT	86	102	7290
228	RU0302082 9502008-A/DREW	87	100	7776
229	RU0302094 9502008-A/DREW	85	102	7701
230	RU0402097 9502008-A//AR 1188/CCDR	85	101	7941
231	RU0402103 9502008//KATY/902207x2	82	107	8056
232	RU0202140 JSMN/DLLA	88	103	6303
233	JUPITER (RU0202183)	89	98	7133
234	RU0402028 BNGL/MERC/RICO/3/MERC/...	89	96	6537
235	RU0402125 96 INT/AR 1188	88	103	7279
236	RU0402140 MERC/RICO//BNGL/3/SMARS/...	89	102	6580
237	RU0402146 MERC/RICO//MERC/3/MERC/...	89	97	6601
238	RU0402183 9502065/3/MERC/RICO//BNGL	91	91	6068
239	RU0402011 61764DH3	87	112	8486
240	RU0402042 AC110DH2/AC108DH2	86	108	8141
241	RU0402051 DREW/AC167DH1	88	108	7116
242	RU0402062 0043752/0047277	84	107	8468
243	RU0402085 0043676/AC105DH3	85	102	7733
244	RU0402088 AC111DH3/AC468DH2	87	102	7850

## EXHIBIT D

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**2004 Commercial Advanced Yield Trial**  
**Evangeline Parish, Mamou, La.**

ENT	Pedigree	Days to 50% Heading	Height (cm)	Grain Yield
245	RU0402091 9863910DH2/AR 1053	84	114	8575
246	RU0202091 9865216DH2	86	113	8416
247	RU0402128 0043752/0047277	85	106	7877
248	RU0402149 AC101DH2/AC102DH2	87	101	8334
249	RU9903092 VSTA/LBNT//RSMT/3/MBLE	84	101	6797
250	RU0103123 8902207x2-25KR/DXBL	86	97	6796
251	RU0101093 9101001//TBNT/KATY/3/LGRU	81	115	6526
252	RU0104055 L201//TBNT/BLMT	88	112	6809
253	CLXL 8	83	119	9312
254	XP 710	87	108	9020
255	XP 712	89	117	8721
256	XP 716	91	122	8628
257	XP 723	84	123	9337
258	AB 8198	87	119	7023
259	AB 8649	87	108	6631
260	AB 8684	89	103	6509
c.v. %		1.6	4.6	5.7
LSD <sub>0.05</sub>		2.2	7.9	673

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)  Louisiana State University Agricultural Center	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  LA0202183	3. VARIETY NAME  Jupiter
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  LSU AgCenter Rice Research Station 1373 Caffey Road Rayne, LA 70578	5. TELEPHONE (Include area code)  (337) 788-7531	6. FAX (Include area code)  (337) 788-7553
7. PVPO NUMBER  <b>2005 00285</b>		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Owned by the Louisiana State University Agricultural Center

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.